Research Semester

Product Evolution Fluidglass

Sustainable Design

Teachers: Prof. Dietrich Schwarz and Dipl.-Ing. Wolfgang Simma Wallinger

Module type Individual Elective Course title Project Research Semester ECTS 12.0 Taught units per semester (in units of 45 minutes) 24.0 Private study time (in hours) 342.0 Min. enrolment - Frequency Twice a year Language English Assessment Minimum 75% compulsory attendance, continuous assessment and regular meetings with instructors. The final grade is calculated according to the weighting of the following components: final submission (80%) and oral presentation (20%)

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What is Fluidglass?

Fluidglass represents a pioneering innovation in building technology that transforms windows into intelligent, multifunctional elements of construction. These advanced windows not only permit the passage of light but also possess the capability to store and regulate energy. By utilizing a specialized fluid enclosed within the glass that dynamically responds to temperature variations, Fluidglass significantly enhances the energy efficiency and thermal comfort of buildings.

In this module, you will gain comprehensive insights into product development within the construction industry and the contemporary innovation processes that drive such advancements. Your participation will encompass a range of activities, including conducting research, performing simulations, and developing both a business model and a go-to-market strategy. The specific scope of your work will be tailored to your expertise and interests during an initial meeting session.

In collaboration with the LBS Innovation Unit, this research semester presents a unique opportunity to investigate sustainable construction through the lens of practical product development. You will engage in the integration of Fluidglass technology into building designs, exploring its potential to reduce energy consumption and enhance indoor environmental quality. Working alongside experts from diverse disciplines and students from various faculties, you will develop holistic solutions to pressing sustainability challenges. This experience will equip you with critical skills and knowledge necessary for implementing sustainable building projects. Moreover, you will have the opportunity to learn about state-of-the-art technologies, contribute to environmentally responsible construction methods, enhance your career prospects, and expand your professional network.